



Inventors: Ken C. Richardson, Larry D. Richardson
Invention: Anchor Assist, (Replacement Sheet 11/15/2003)
0/14

A
B
C
D

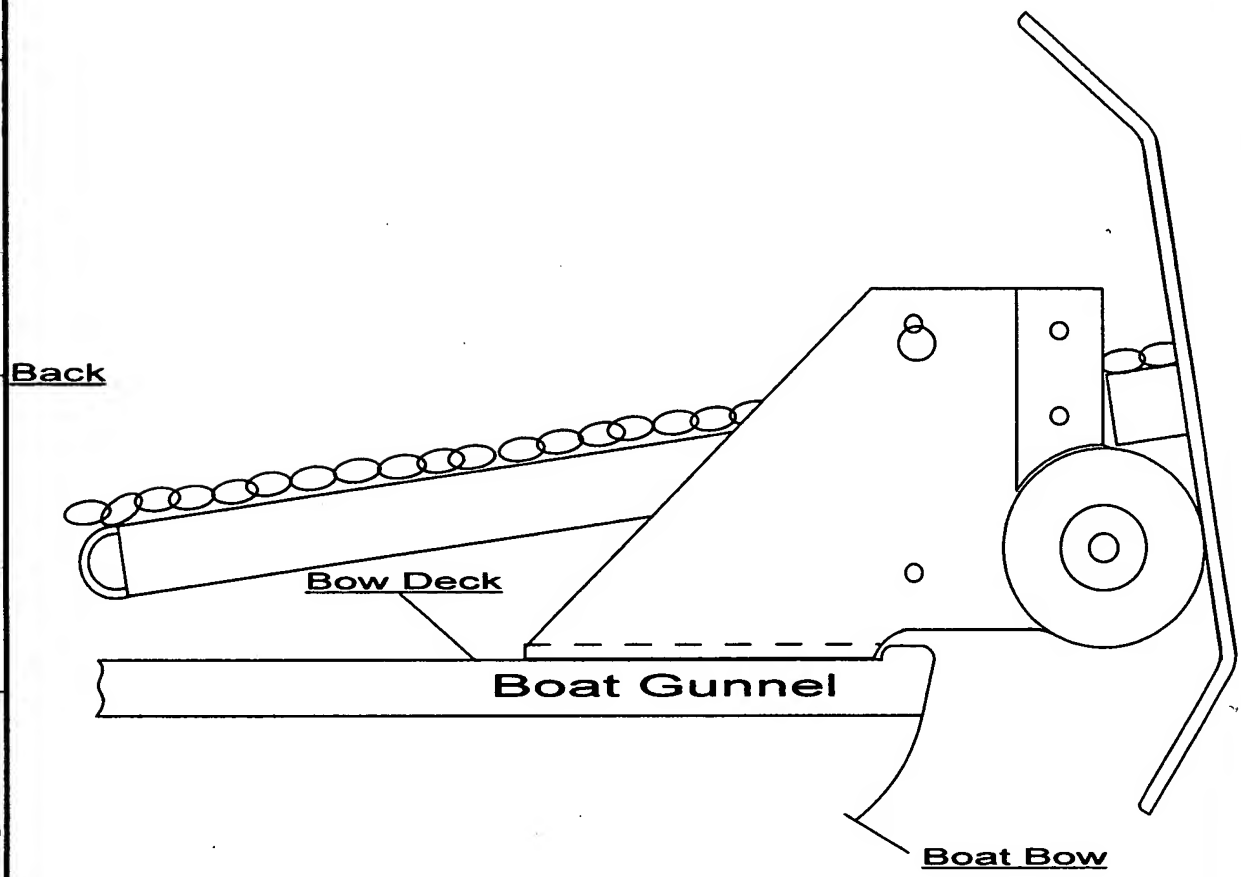


Figure 0 : Cover
Anchor Assist

Application range				Perm. tolerance		Surface		Scale (3:1) N/A USPTO Spec		Weight .25" (1/4")	
Suggested Cover								Material			
								Raw part no. 5052 Aluminum, UMHW, S/S			
								Model no.			
					Date	Name		Designation BWC- Big Water Company Anchor Assist			
				Editor	June 2002	LDR					
				Check	06/11/03						
				Stand.							
	Replacement	11/15/2003	R					Drawing number		Sheet	
		06/11/03	LDR							1 of 1	
		04/16/03	LDR							Sh.	
Stat.	Modification	Date	Nam	Origin CNC#18105. VT		Repl. f.: 06/11/03		Repl. by: 11/15/03			

Inventors: Ken C. Richardson, Larry D. Richardson
 Invention: Anchor Assist, (Replacement Sheet 11/15/2003)

1 / 14

Rear

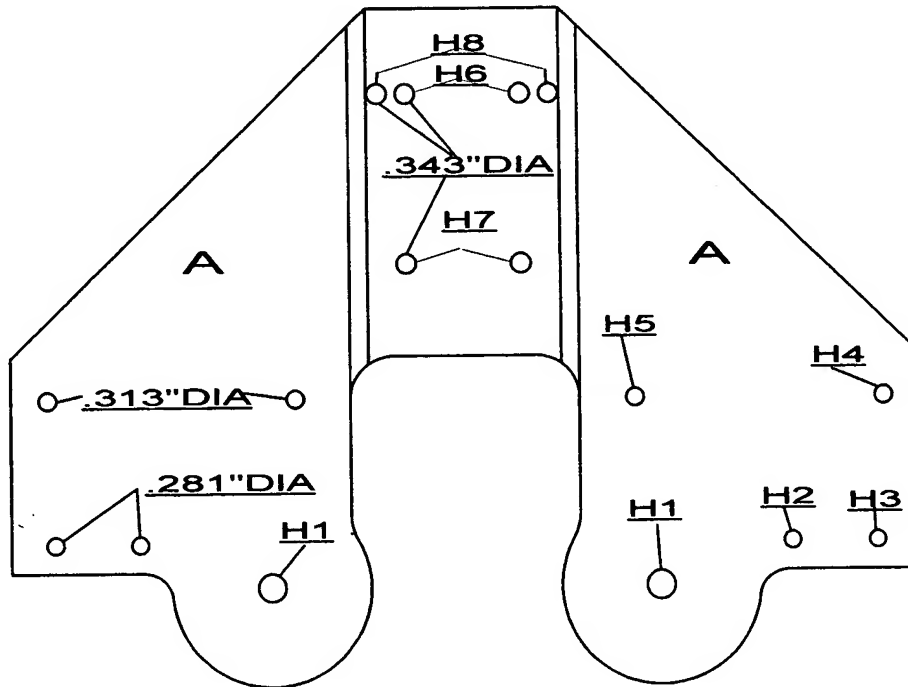


Figure 1 :
 Plan View. Flat Pattern Layout

Application range				Perm. tolerance		Surface		Scale (3:1) N/A USPTO Spec		Weight .25" (1/4")	
Parts Identification								Material Raw part no. 5052 Aluminum Model no.			
				Date	Name	Designation BWC- Big Water Company Anchor Assist					
				Editor	June 2002 LDR						
				Check	08/11/03						
				Stand.							
	Replacement	11/15/2009 R				Drawing number 10001-A					
		08/11/03 LDR									
		04/18/03 LDR									
Stat.	Modification	Date	Nam	Origin	CNC#18105. VT	Repl. f.: 08/11/03				Repl. by: 11/15/03	
										Sheet 1 of 2	
										Sh.	

Inventors: Ken C. Richardson, Larry D. Richardson
 Invention: Anchor Assist, (Replacement Sheet 11/15/2003)

1/14

Rear

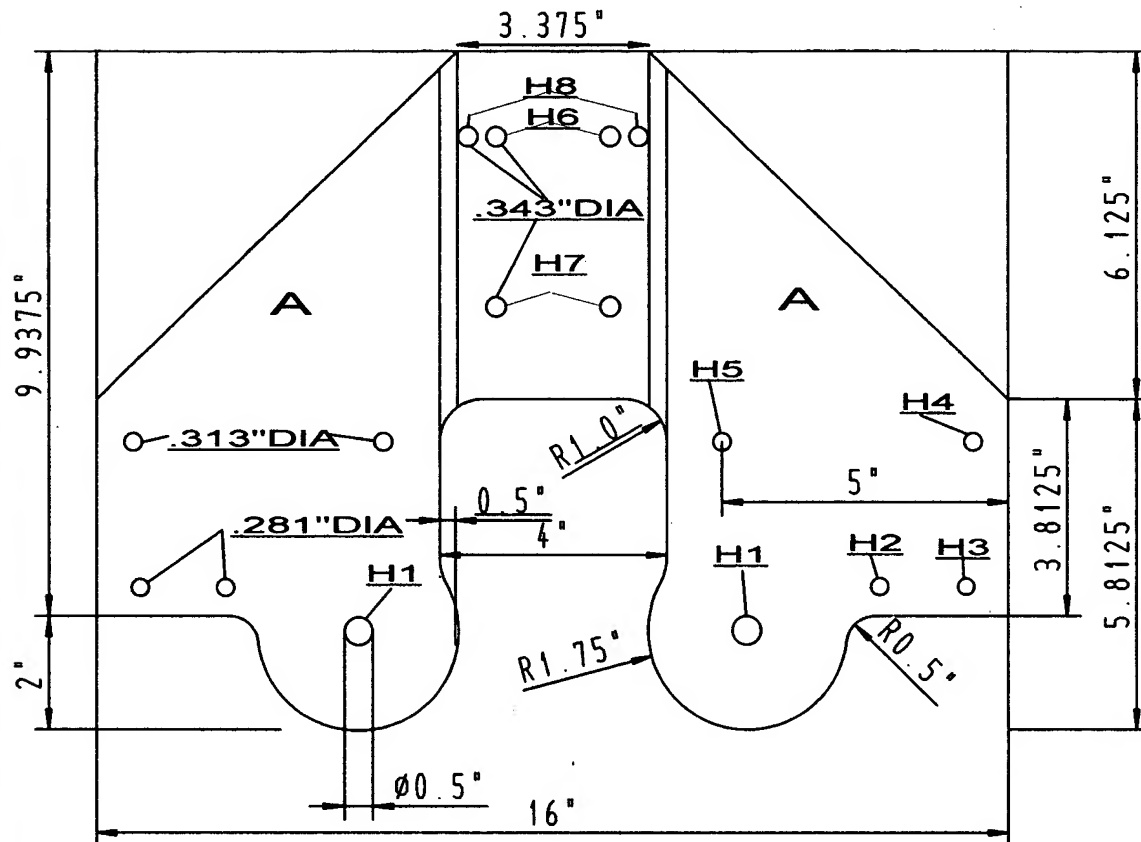


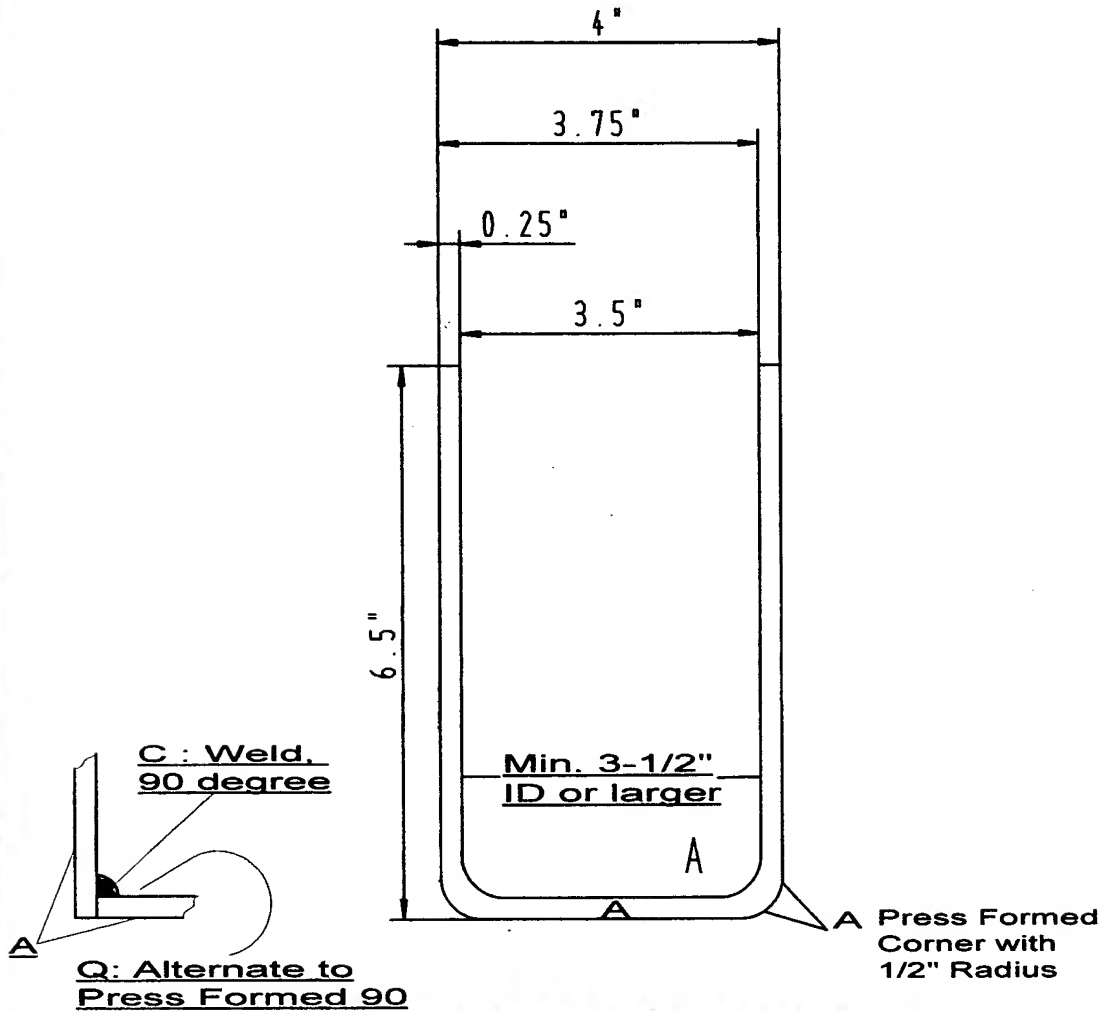
Figure 1 : With Dimensions
 Plan View. Flat Pattern Layout

Application range				Perm. tolerance		Surface		Scale (3:1) N/A USPTO Spec		Weight .25" (1/4")	
Parts Identification With Dimensions								Material Raw part no. 5052 Aluminum Model no.			
					Date	Name		DesignationBWC- Big Water Company Anchor Assist			
				Editor	June 2002LDR						
				Check	06/11/03						
				Stand.							
	Replacement	11/15/2003	LDR					Drawing number		Sheet	
		06/11/03	LDR					10001-B		2 of 2	
		04/16/03	LDR							Sh.	
Stat.	Modification	Date	Nam	Origin CNC#18105. VT				Repl. f.: 06/11/03		Repl. by: 11/15/03	

Inventors: Ken C. Richardson, Larry D. Richardson
 Invention: Anchor Assist, (Replacement Sheet 11/15/2003)

2 / 14

Top



**Figure 2 : With Dimensions
 Elevation View Before Addition
 of Welded Support Gusset**

Application range				Perm. tolerance	Surface	Scale (2:1) N/A USPTO Spec	Weight .25"
Parts Identification With Dimensions						Material Raw part no. Aluminum Model no.	
				Date	Name	Designation BWC- Big Water Company Anchor Assist Richardson Brothers - Ken: 503-668-1274, Larry: 503-502-0595	
				Editor June 2002	LDR		
				Check 06/11/03			
				Stand.			
	Replacement	11/15/2003	DDR			Drawing number	Sheet 1 of 1
		06/11/03	LDR			10002-A	Sh.
		04/16/03	LDR				
Stat.	Modification	Date	Nam	Origin	Repl. f.: 06/11/03	Repl. by: 11/15/03	

Inventors: Ken C. Richardson, Larry D. Richardson
 Invention: Anchor Assist, (Replacement Sheet 11/15/2003)

3/14

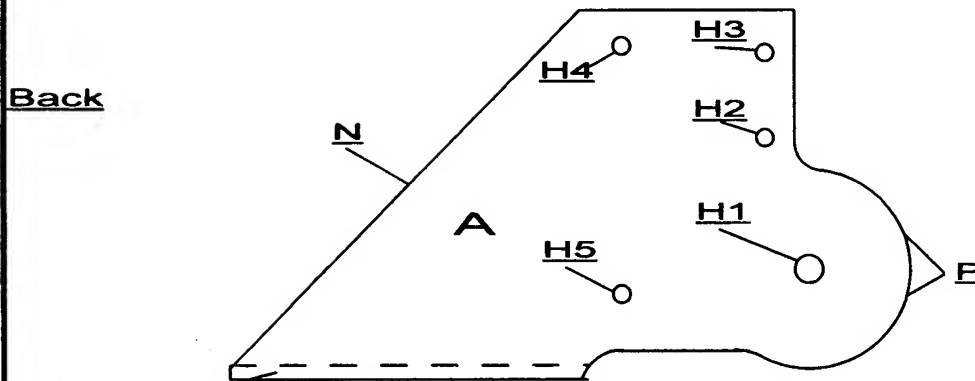


Figure 3 :
 Elevation View. Right Side

Application range				Perm. tolerance		Surface		Scale (3:1) N/A USPTO Spec		Weight .25" (1/4")		
Parts Identification								Material				
								Raw part no. 5052 Aluminum				
								Model no.				
				Date		Name		Designation BWC- Big Water Company				
				Editor June 2002		LDR		Anchor Assist				
				Check 06/11/03								
				Stand.								
Replacement				11/15/2003		LDR		Drawing number				Sheet
				06/11/03		LDR		10003-A				1 of 2
				04/16/03		LDR						Sh.
Stat.	Modification	Date	Nam	Origin CNC#18105. VT				Repl. f.: 06/11/03		Repl. by: 11/15/03		

3/14

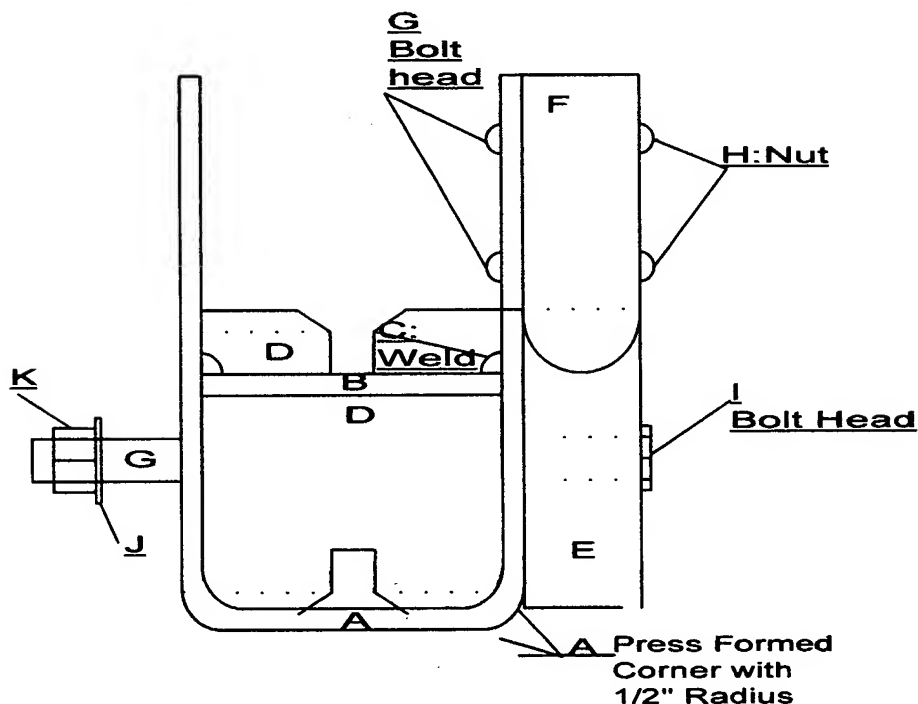


Application range Parts Identification With Dimensions				Perm. tolerance		Surface		Scale (3:1) N/A USPTO Spec		Weight .25" (1/4")	
								Material Raw part no. 5052 Aluminum Model no.			
						Date		Name		Designation BWC- Big Water Company Anchor Assist	
				Editor		June 2002		LDR			
				Check		06/11/03					
				Stand.							
Replacement		11/15/2003		OR				Drawing number		Sheet	
		06/11/03		LDR				10003-B		2 of 2	
		04/16/03		LDR						Sh.	
Stat.	Modification	Date	Nam	Origin CNC#18105. VT				Repl. f.: 06/11/03		Repl. by: 11/15/03	

Inventors: Ken C. Richardson, Larry D. Richardson
Invention: Anchor Assist, (Replacement Sheet 11/15/2003)

4/14

Top



Duplicated as mirror
on left side for parts
E, F, G, & H

Rear View

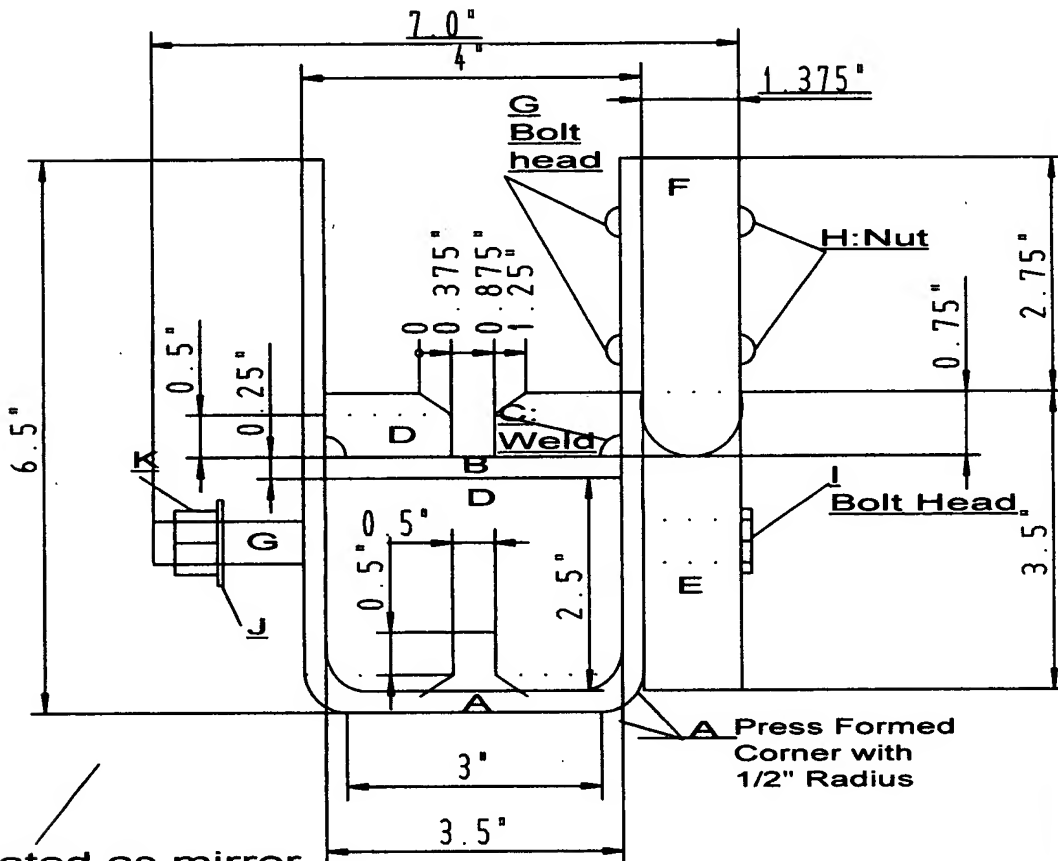
Figure 4 :
Elevation View After Addition
of Welded Support Gusset.
5"x3.5"x1/4" & UMHW Parts

Application range				Perm. tolerance		Surface		Scale (2:1) N/A USPTO Spec		Weight .25"	
Parts Identification								Material Raw part no. Aluminum, UMHW, S/S Model no.			
				Date	Name	Designation BWC- Big Water Company Anchor Assist Richardson Brothers - Ken: 503-668-1274, Larry: 503-502-0595					
				Editor	June 2002 LDR						
				Check	08/11/03						
				Stand.							
	Replacement	11/15/2003	DR			Drawing number				Sheet 1 of 2	
		08/11/03	LDR			10004-A				Sh.	
		04/18/03	LDR								
Stat.	Modification	Date	Num	Origin	Repl. f.: 08/11/03				Repl. by: 11/15/03		

Inventors: Ken C. Richardson, Larry D. Richardson
Invention: Anchor Assist, (Replacement Sheet 11/15/2003)

4/14

Top



Duplicated as mirror
on left side for parts
E, F, G, & H

Rear View

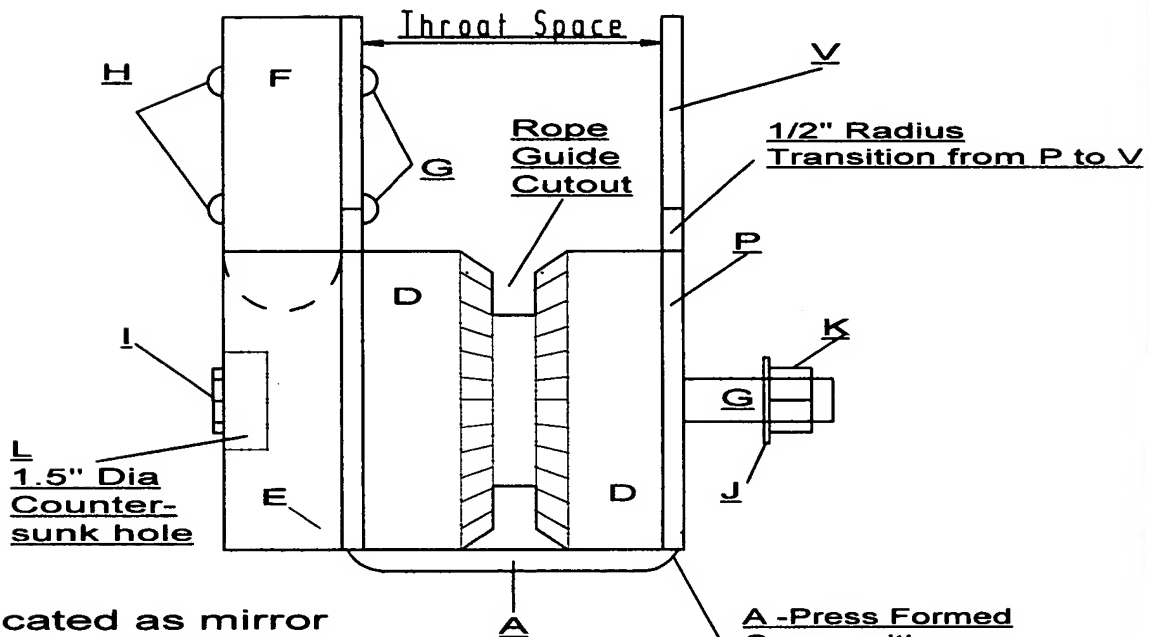
Figure 4 : With Dimensions
Elevation View After Addition
of Welded Support Gusset.
5"x3.5"x1/4" & UMHW Parts

Application range				Perm. tolerance	Surface	Scale (2:1) N/A USPTO Spec	Weight .25"
Parts Identification With Dimensions						Material	
						Raw part no.	Aluminum, UMHW, S/S
						Model no.	
				Date	Name	Designation	
				Editor June 2002	LDR	BWC- Big Water Company	
				Check 06/11/03		Anchor Assist	
				Stand.		Richardson Brothers - Ken: 503-668-1274, Larry: 503-502-0595	
Replacement				11/15/2003	R	Drawing number	
				06/11/03	LDR	10004-B	
				04/16/03	LDR	Sheet	
						2 of 2	
Stat. Modification				Date	Num	Origin	Sh.
						Repl. f.: 06/11/03	Repl. by: 11/15/03

Inventors: Ken C. Richardson, Larry D. Richardson
 Invention: Anchor Assist, (Replacement Sheet 11/15/2003)

5/14

Top



Duplicated as mirror
 on opposite side for
 parts E, F, G, & H

Front View

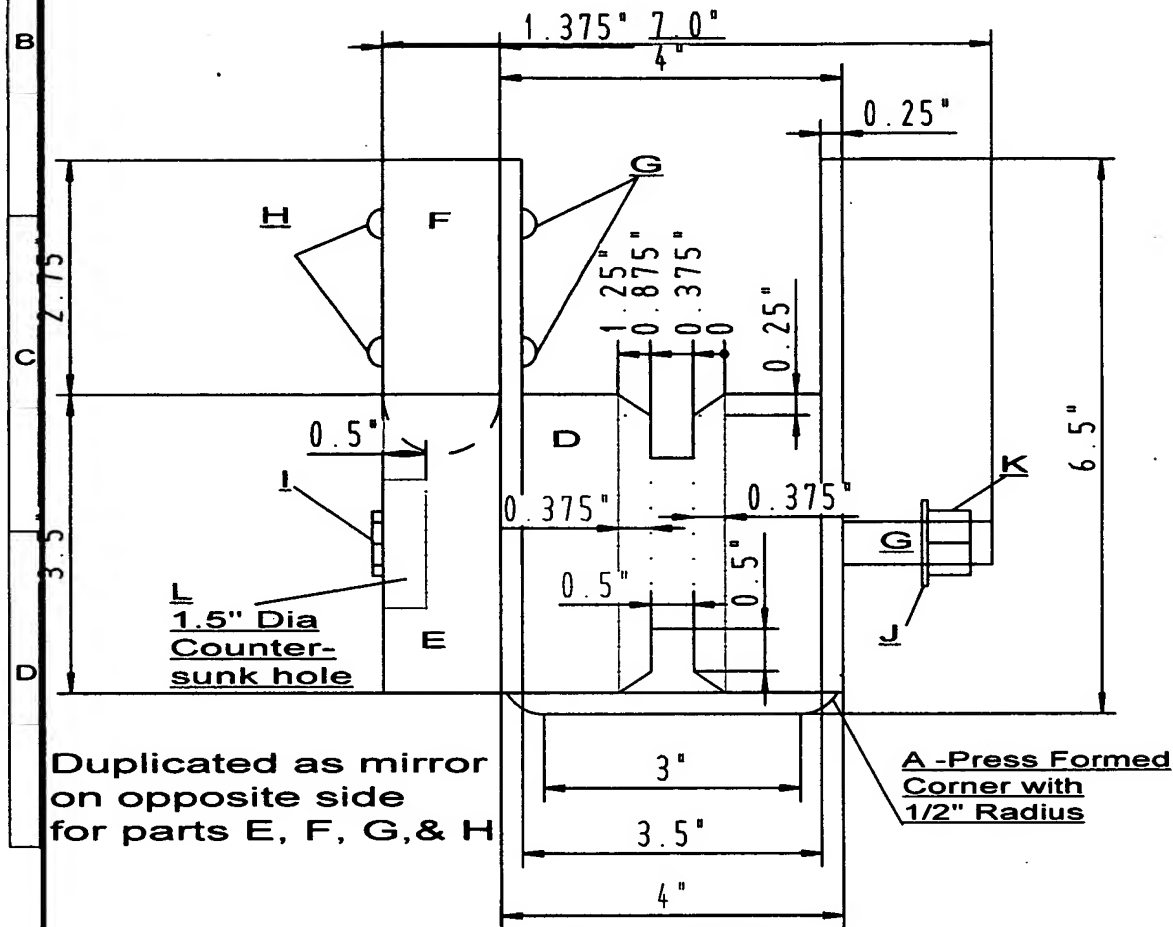
Figure 5 :
 Elevation View After Addition
 of Center Roller 3.5" x 3.5"
 UMHW Cylinder.

Application range				Perm. tolerance		Surface		Scale (2:1) N/A USPTO Spec		Weight .25"	
Parts Identification								Material Raw part no. Aluminum, UMHW, S/S Model no.			
					Date	Name		Designation BWC- Big Water Company Anchor Assist Richardson Brothers - Ken: 503-668-1274, Larry: 503-502-0595			
				Editor	June 2002LDR						
				Check	06/11/03						
				Stand.							
	Replacement	11/15/2003	LDR					Drawing number		Sheet	
		06/11/03	LDR					10005-A		1 of 2	
		04/16/03	LDR							Sh.	
Stat.	Modification	Date	Nam	Origin				Repl. f.: 06/11/03		Repl. by: 11/15/03	

Inventors: Ken C. Richardson, Larry D. Richardson
Invention: Anchor Assist, (Replacement Sheet 11/15/2003)

5/14

Top



Duplicated as mirror on opposite side for parts E, F, G, & H

Front View

Figure 5 : With Dimensions
Elevation View After Addition
of Center Roller 3.5" x 3.5"
UMHW Cylinder.

Application range				Perm. tolerance		Surface		Scale (2:1) N/A USPTO Spec		Weight .25"		
Parts Identification With Dimensions								Material				
								Raw part no. Aluminum, UMHW, S/S				
								Model no.				
					Date	Name		Designation				
				Editor	June 2002		LDR		BWC- Big Water Company Anchor Assist Richardson Brothers - Ken: 503-668-1274, Larry: 503-502-0595			
				Check	06/11/03							
				Stand.								
	Replacement	11/15/2003	LDR					Drawing number				Sheet
		06/11/03	LDR					10005-B				2 of 2
		04/16/03	LDR									Sh.
Stat.	Modification	Date	Nam	Origin				Repl. f.: 06/11/03				Repl. by: 11/15/03

Inventors: Ken C. Richardson, Larry D. Richardson
 Invention: Anchor Assist, (Replacement Sheet 11/15/2003)

6/14

Front

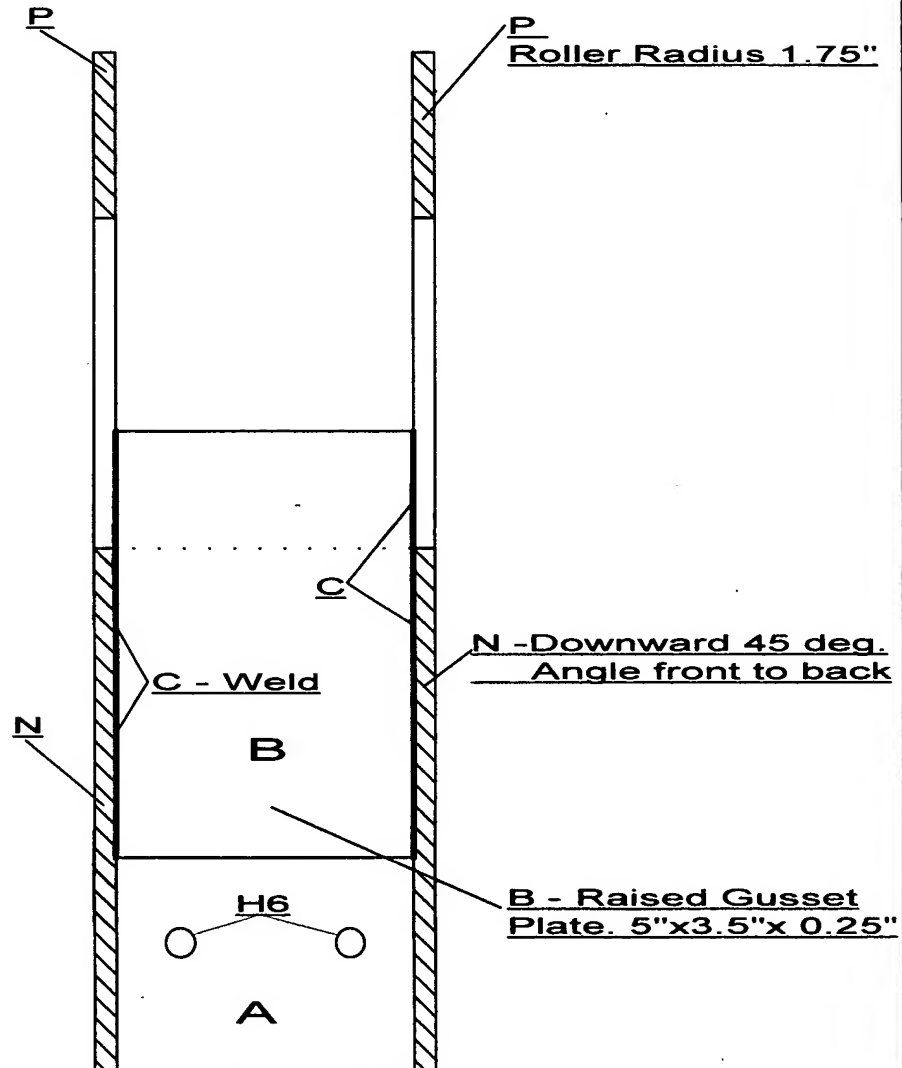


Figure 6
 Plan View - Top

Application range				Perm. tolerance	Surface	Scale (2:1) N/A USPTO Spec	Weight .25"
Parts Identification						Material	
						Raw part no.	Aluminum
						Model no.	
				Date	Name	Designation BWC- Big Water Company Anchor Assist Richardson Brothers - Ken: 503-668-1274, Larry: 503-502-0595	
				Editor	June 2002 LDR		
				Check	06/11/03		
				Stand.			
	Replacement	11/15/2003	DR				Sheet
		06/11/03	LDR				1 of 2
		04/16/03	LDR				Sh.
Stat.	Modification	Date	Nam	Origin	Repl. f.: 06/11/03	Repl. by: 11/15/03	

[illegible]

Application range				Perm. tolerance		Surface		Scale (2:1) N/A USPTO Spec		Weight .25"			
Parts Identification With Dimensions								Material					
								Raw part no. Aluminum					
								Model no.					
					Date	Name		Designation BWC- Big Water Company Anchor Assist Richardson Brothers - Ken: 503-668-1274, Larry: 503-502-0595					
				Editor	June 2002 LDR								
				Check	06/11/03								
				Stand.									
								Drawing number 30006-B					
	Replacement	11/15/2009	R									Sheet 2 of 2	
		06/11/03	LDR										
		04/16/03	LDR										
Stat.	Modification	Date	Num	Origin	Repl. f.: 06/11/03				Repl. by: 11/15/03				
Sh.													

Inventors: Ken C. Richardson, Larry D. Richardson
 Invention: Anchor Assist, (Replacement Sheet 11/15/2003)

7/14

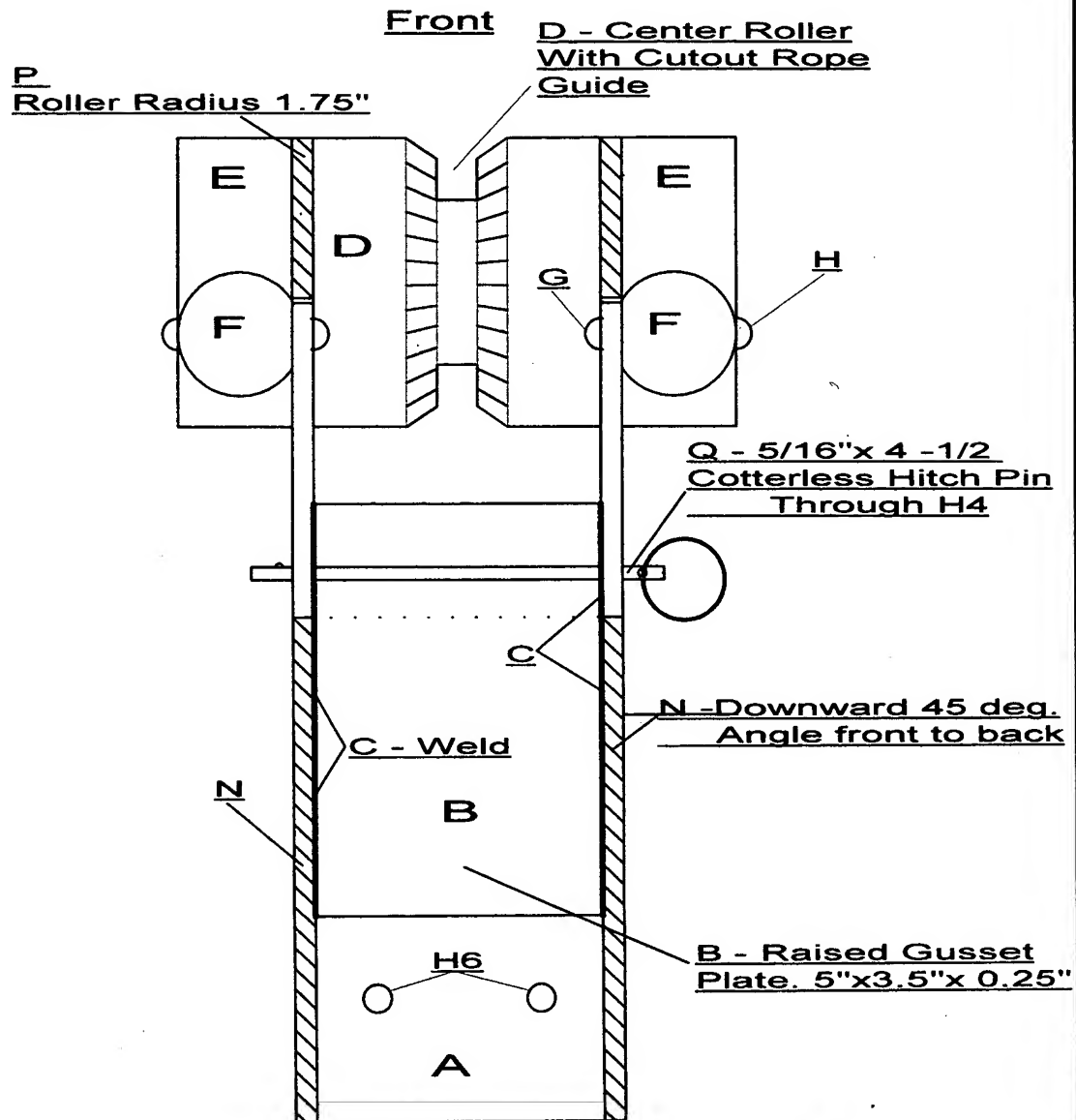


Figure 7
 Plan View - Top

Application range				Perm. tolerance	Surface	Scale (2:1) N/A USPTO Spec	Weight .25"
Parts Identification						Material	
						Raw part no.	Aluminum, UMW, S/S
						Model no.	
				Date	Name	Designation BWC- Big Water Company Anchor Assist	
				Editor June 2002	LDR		
				Check 06/11/03			
				Stand.			
						Richardson Brothers - Ken: 503-668-1274, Larry: 503-502-0595	
	Replacement	11/15/2003				Drawing number	Sheet
		06/11/03				30007-A	1 of 2
		04/16/03					Sh.
Stat.	Modification	Date	Nam	Origin		Repl. f.: 06/11/03	Repl. by: 11/15/03

Inventors: Ken C. Richardson, Larry D. Richardson
 Invention: Anchor Assist, (Replacement Sheet 11/15/2003)

7/14

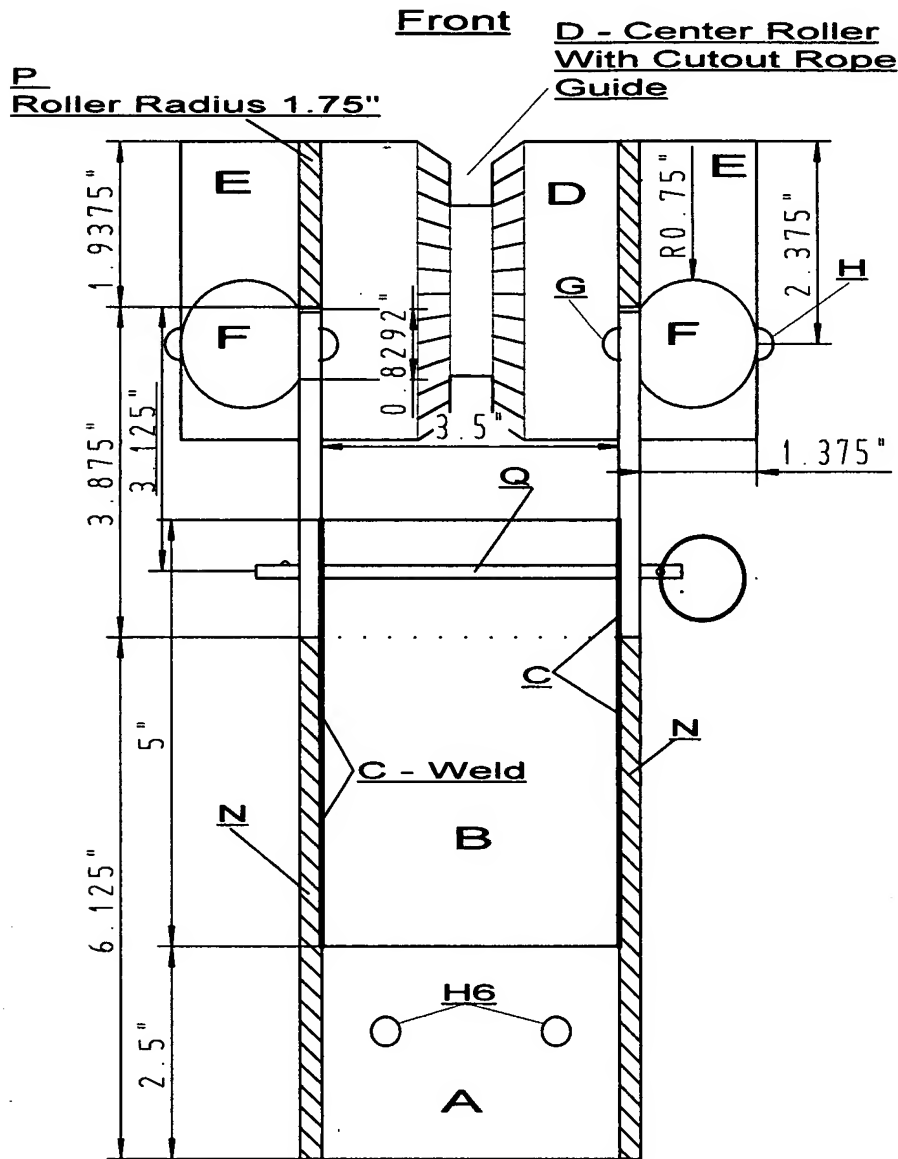


Figure 6 : With Dimensions
 Plan View - Top

Application range				Perm. tolerance		Surface		Scale (2:1) N/A USPTO Spec		Weight .25"	
Parts Identification With Dimensions								Material			
								Raw part no. Aluminum, UMHW, S/S			
								Model no.			
					Date	Name		Designation			
					Editor	June 2002 LDR		BWC- Big Water Company Anchor Assist Richardson Brothers - Ken: 503-668-1274, Larry: 503-502-0595			
					Check	06/11/03					
					Stand.						
	Replacement	11/15/2003	LDR					Drawing number		Sheet	
		06/11/03	LDR					30007-B		2 of 2	
		04/16/03	LDR							Sh.	
Stat.	Modification	Date	Nam	Origin	Repl. f.: 06/11/03				Repl. by: 11/15/03		

Inventors: Ken C. Richardson, Larry D. Richardson
 Invention: Anchor Assist, (Replacement Sheet 11/15/2003)

8/14

Figure 8, Part E
 Side Elevation

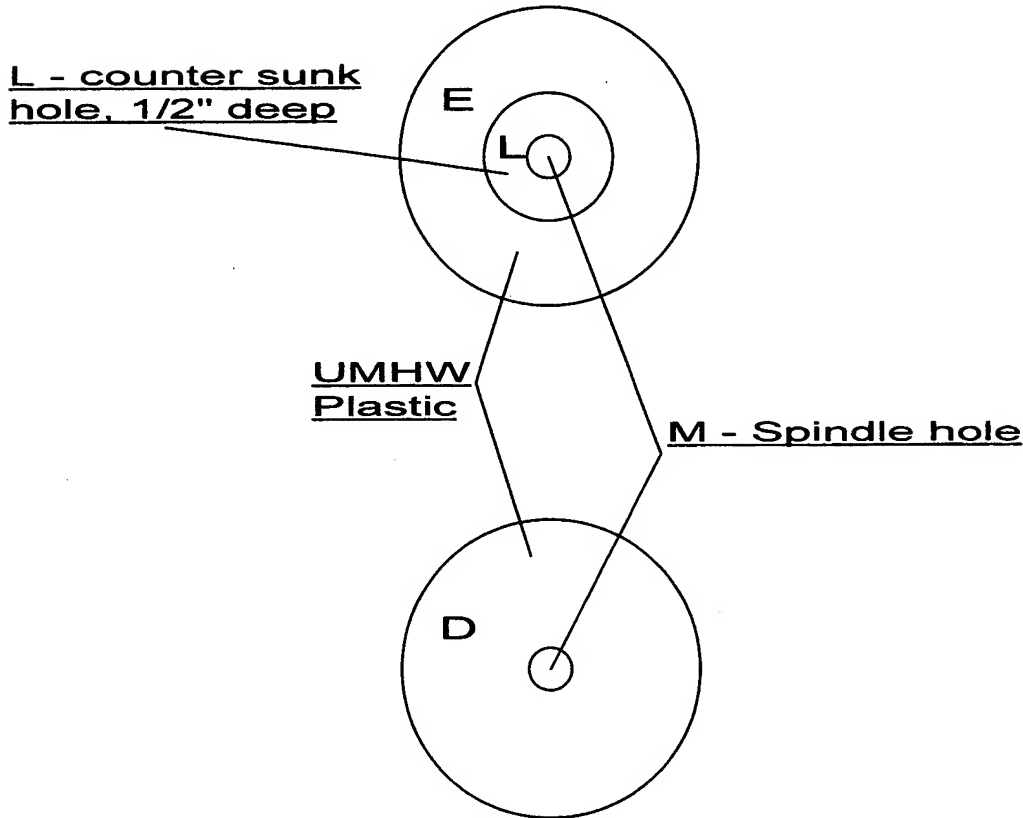


Figure 8, Part D
 Side Elevation

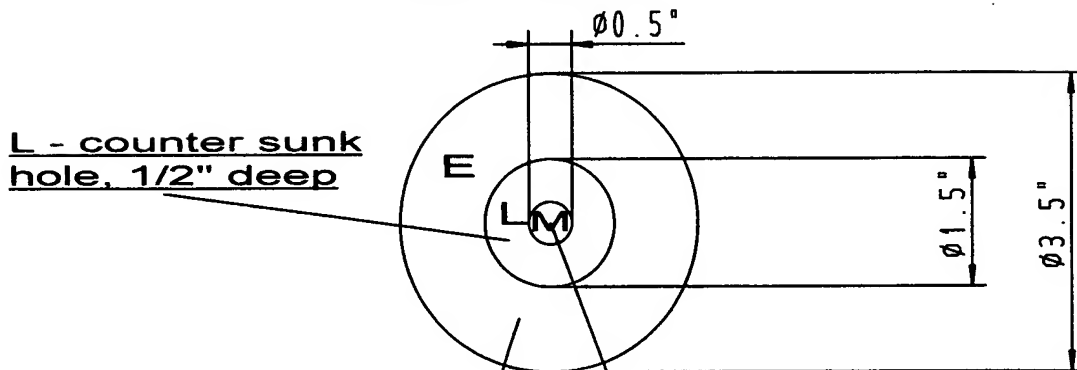
Figure 8 :
 Elevation Views

Application range				Perm. tolerance		Surface		Scale (2:1) N/A USPTO Spec		Weight 3.5"	
Parts Identification								Material		UMHW White	
								Raw part no.		UMHW White	
								Model no.			
				Date	Name	Designation					
				Editor	June 2002 LDR	BWC- Big Water Company Anchor Assist					
				Check	06/11/03						
				Stand.							
								Richardson Brothers - Ken: 503-668-1274, Larry: 503-502-0595			
	Replacement	11/15/2003	LDR			Drawing number				Sheet	
		06/11/03	LDR			10008-A				1 of 2	
		04/16/03	LDR							Sh.	
Stat.	Modification	Date	Nam	Origin	Repl. f.: 06/11/03			Repl. by: 11/15/03			

Inventors: Ken C. Richardson, Larry D. Richardson
 Invention: Anchor Assist, (Replacement Sheet 11/15/2003)

8/14

Figure 8, Part E
 Side Elevation



UMHW
Plastic

M : Spindle hole

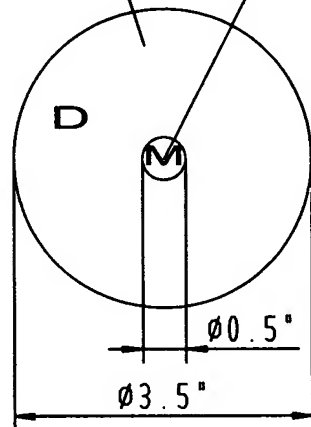


Figure 8, Part D
 Side Elevation

Figure 8 : With Dimensions
 Elevation Views

Application range				Perm. tolerance		Surface		Scale (2:1) N/A USPTO Spec		Weight 3.5"	
Parts Identification With Dimensions								Material			
								Raw part no. UMHW White			
								Model no.			
					Date	Name		Designation BWC- Big Water Company Anchor Assist Richardson Brothers - Ken: 503-668-1274, Larry: 503-502-0595			
				Editor	June 2002LDR						
				Check	06/11/03						
				Stand.							
	Replacement	11/15/2003	LDR					Drawing number		Sheet	
		06/11/03	LDR					10008-B		2 of 2	
		04/16/03	LDR							Sh.	
Stat.	Modification	Date	Nam	Origin				Repl. f.: 06/11/03		Repl. by: 11/15/03	

Inventors: Ken C. Richardson, Larry D. Richardson
 Invention: Anchor Assist, (Replacement Sheet 11/15/2003)

9/14

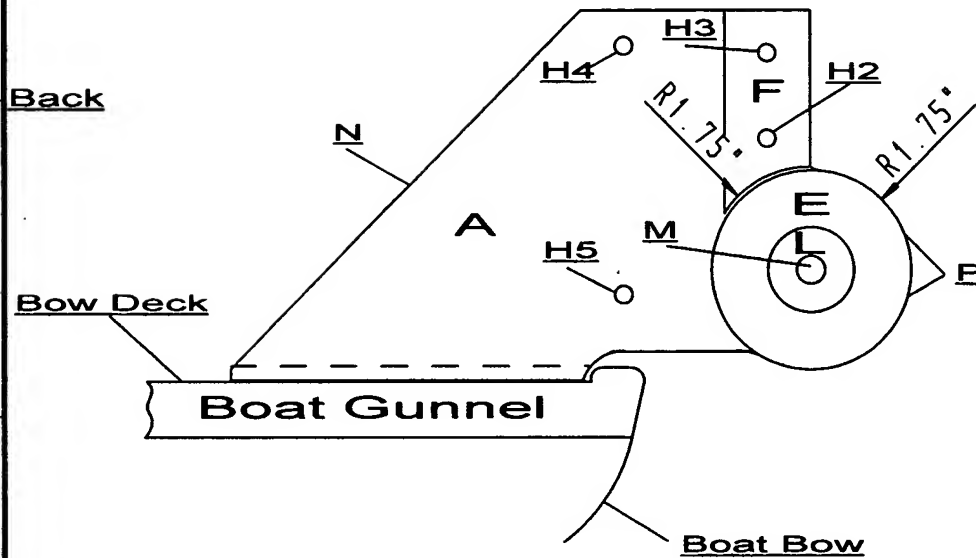


Figure 3 :
 Relationship-Upper/Lower Guide
 & Bow Mount Overhang.
 Elevation View. Right Side

Application range				Perm. tolerance		Surface		Scale (3:1) N/A USPTO Spec		Weight .25" (1/4")					
Parts Identification & Radius dimensioning								Material							
								Raw part no. 5052 Aluminum, UMHV, S/S							
								Model no.							
								DesignationBWC- Big Water Company							
				Date	Name	Anchor Assist									
				Editor	June 2002							LDR			
				Check	06/11/03										
				Stand.											
								Drawing number							
	Replacement	11/15/2003	R									10009-A			
		06/11/03	LDR												
		04/16/03	LDR												
Stat.	Modification	Date	Nam	Origin CNC#18105. VT				Repl. f.: 06/11/03				Repl. by: 11/15/03			
										Sheet 1 of 1		Sh.			

Inventors: Ken C. Richardson, Larry D. Richardson
 Invention: Anchor Assist, (Replacement Sheet 11/15/2003)

10/14

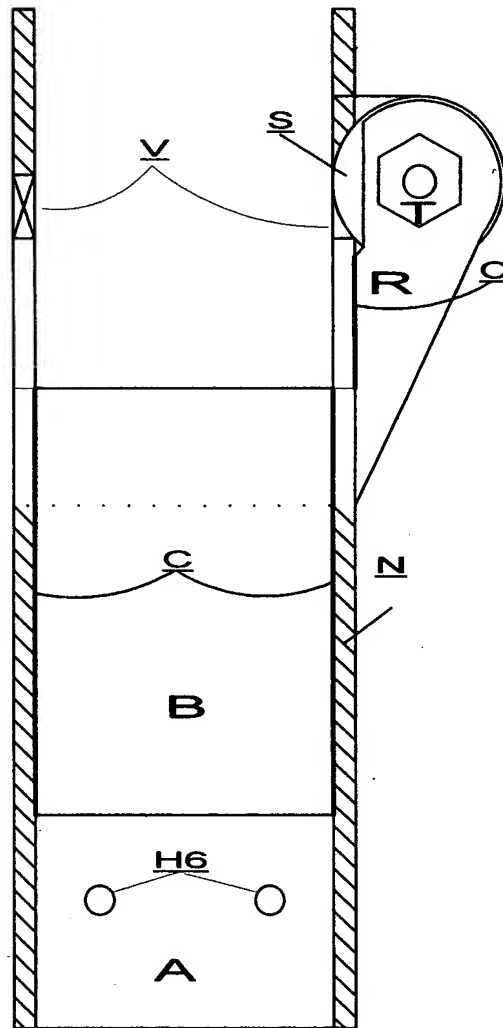


Figure 10
Plan View

Application range				Perm. tolerance		Surface		Scale (2:1) N/A USPTO Spec		Weight .25"	
Parts Identification								Material		Aluminum, UMHW, S/S	
								Raw part no.			
								Model no.			
				Date		Name		Designation			
				Editor		June 2002 LDR		BWC- Big Water Company Anchor Assist			
				Check		06/11/03					
				Stand.							
								Richardson Brothers - Ken: 503-668-1274, Larry: 503-502-0595			
Replacement		11/15/2003 R						Drawing number		Sheet	
		06/11/03 LDR						30010-A		1 of 2	
		04/16/03 LDR								Sh.	
Stat.	Modification	Date	Nam	Origin				Repl. f.: 06/11/03		Repl. by: 11/15/03	

10/14



Application range				Perm. tolerance		Surface		Scale (2:1) N/A USPTO Spec		Weight .25"		
Parts Identification With Dimensions								Material				
								Raw part no. Aluminum,UMHW,S/S				
								Model no.				
					Date	Name		Designation				
				Editor	June 2002		LDR		BWC- Big Water Company Anchor Assist Richardson Brothers - Ken: 503-668-1274, Larry: 503-502-0595			
				Check	06/11/03							
				Stand.								
	Replacement	11/15/2003	LDR					Drawing number				Sheet
		06/11/03	LDR					30010-B				2 of 2
		04/16/03	LDR									Sh.
Stat.	Modification	Date	Num	Origin					Repl. f.: 06/11/03		Repl. by: 11/15/03	

Inventors: Ken C. Richardson, Larry D. Richardson
Invention: Anchor Assist, (Replacement Sheet 11/15/2003)

11/14

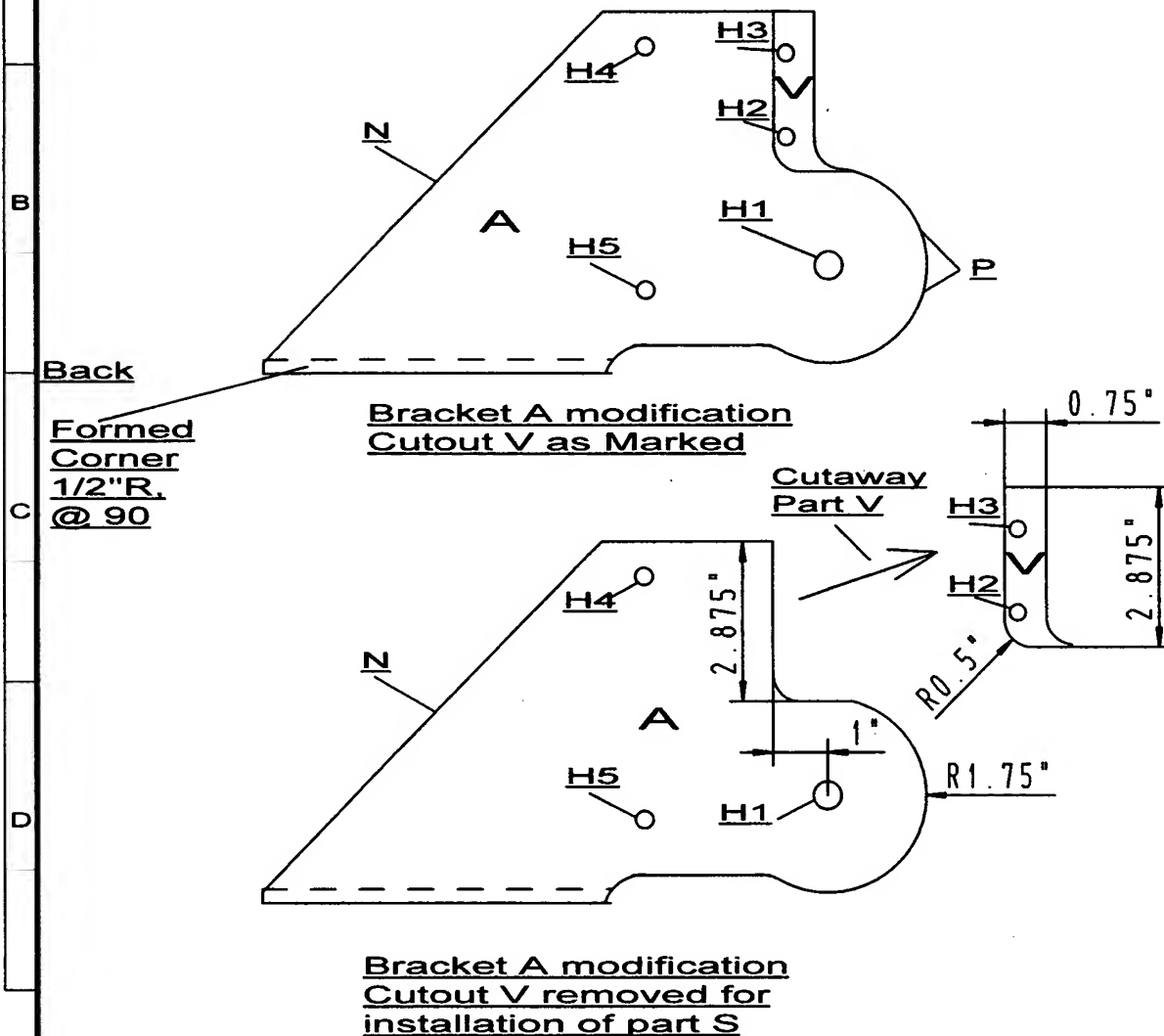
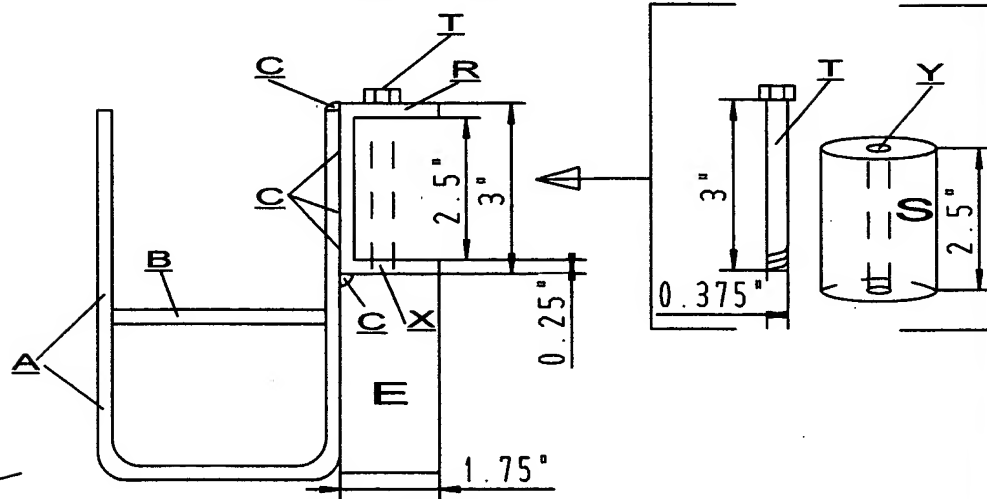


Figure 11: With Dimensions
Elevation View. Right Side

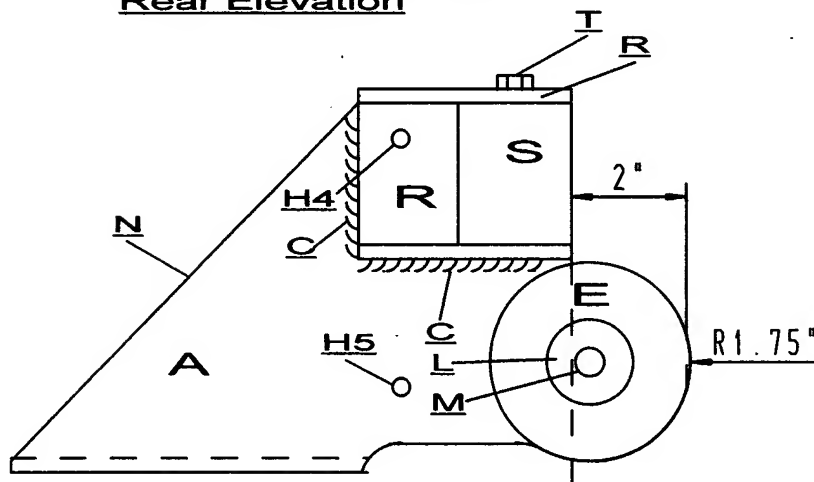
Application range				Perm. tolerance	Surface	Scale (3:1) N/A USPTO Spec	Weight .25" (1/4")
Parts Identification With Dimensions						Material	
						Raw part no.	5052 Aluminum
						Model no.	
				Date	Name	Designation BWC- Big Water Company Anchor Assist	
				Editor June 2002	LDR		
				Check 06/11/03			
				Stand.			
	Replacement	11/15/2003	RDR				Sheet
		06/11/03	LDR				1 of 1
		04/16/03	LDR				Sh.
Stat.	Modification	Date	Nam	Origin CNC#18105. VT	Repl. f.: 06/11/03	Repl. by: 11/15/03	

Inventors: Ken C. Richardson, Larry D. Richardson
 Invention: Anchor Assist, (Replacement Sheet 11/15/2003)

12/14



Bracket A modification
Rear Elevation



Bracket A modification
Bracket R, Roller S
Side Elevation

Figure 12: With Dimensions
Elevation View

Application range Parts Identification With Dimensions				Perm. tolerance	Surface	Scale (3:1) N/A USPTO Spec	Weight .25" (1/4")
						Material	
						Raw part no.	5052 Aluminum,UMHW,S/S
						Model no.	
				Date	Name	Designation BWC- Big Water Company Anchor Assist	
				Editor June 2002	LDR		
				Check 06/11/03			
				Stand.			
	Replacement	11/15/2003	RDR			Drawing number	Sheet
		06/11/03	LDR			10012-A	1 of 1
		04/16/03	LDR				Sh.
Stat.	Modification	Date	Nam	Origin	CNC#18105. VT	Repl. f.: 06/11/03	Repl. by: 11/15/03

1

2

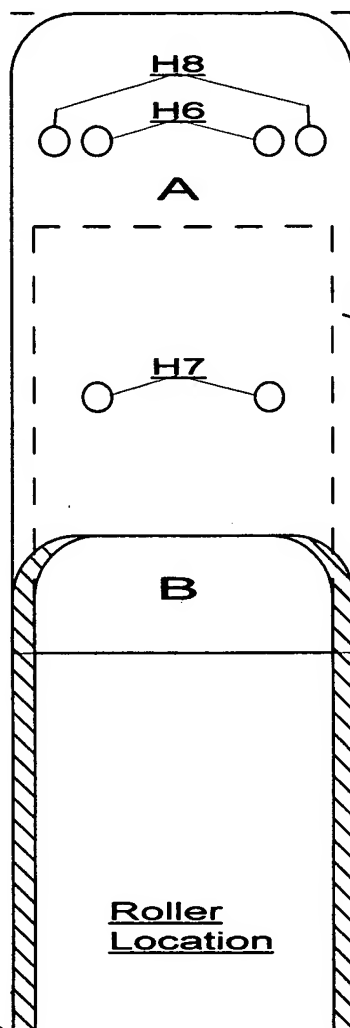
3

4

Inventors: Ken C. Richardson, Larry D. Richardson
 Invention: Anchor Assist, (Replacement Sheet 11/15/2003)

13/14

Rear



A Press Formed
 Corner with
 1/2" Radius

B

Roller
 Location

Front

**Figure 13 :
 Bottom Baseplate View**

Application range				Perm. tolerance		Surface		Scale (2:1) N/A USPTO Spec		Weight .25"	
Parts Identification								Material		Aluminum	
								Raw part no.			
								Model no.			
				Date	Name	Designation					
				Editor	June 2002 LDR	BWC- Big Water Company Anchor Assist					
				Check	06/11/03						
				Stand.							
						Richardson Brothers - Ken: 503-668-1274, Larry: 503-502-0595					
	Replacement	11/15/2009	R			Drawing number				Sheet	
		06/11/03	LDR			10013-A				1 of 2	
		04/16/03	LDR							Sh.	
Stat.	Modification	Date	Nam	Origin		Repl. f.: 06/11/03				Repl. by: 11/15/03	

Inventors: Ken C. Richardson, Larry D. Richardson
 Invention: Anchor Assist, (Replacement Sheet 11/15/2003)

13/14

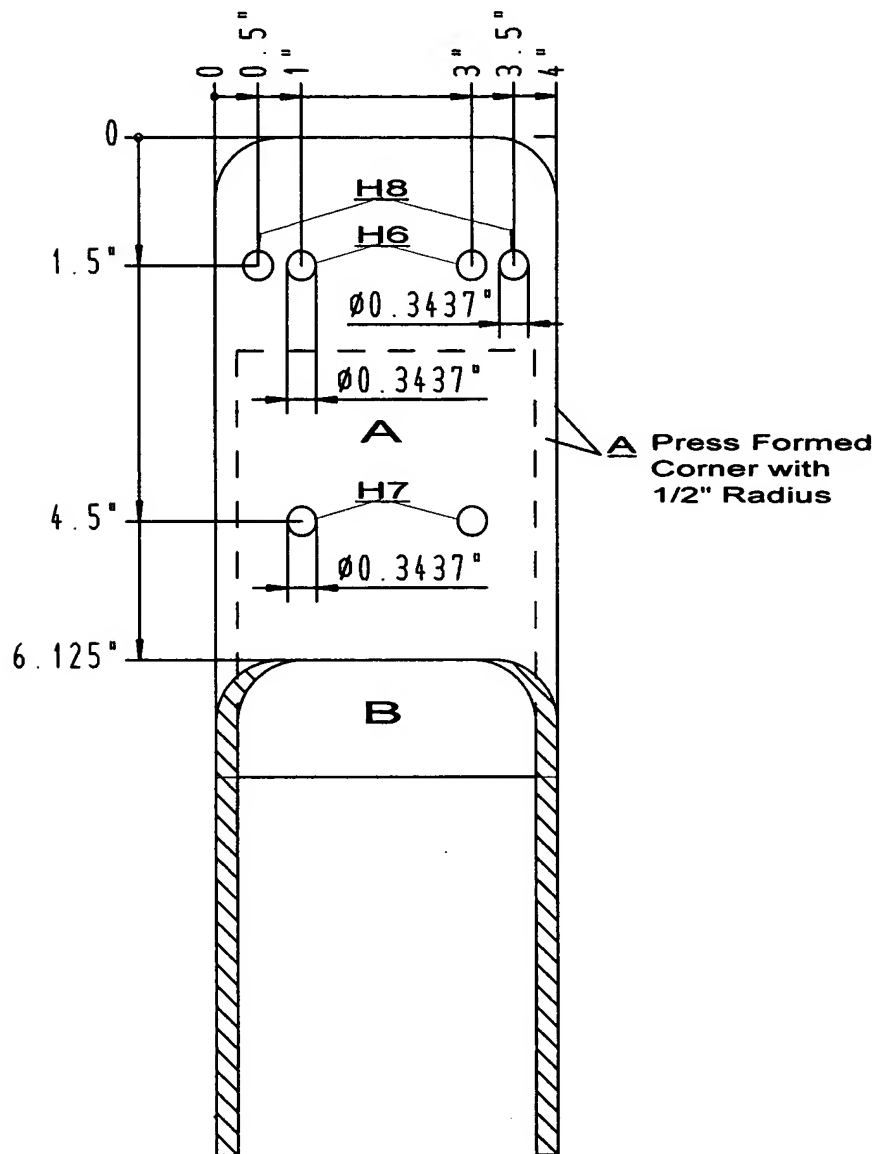


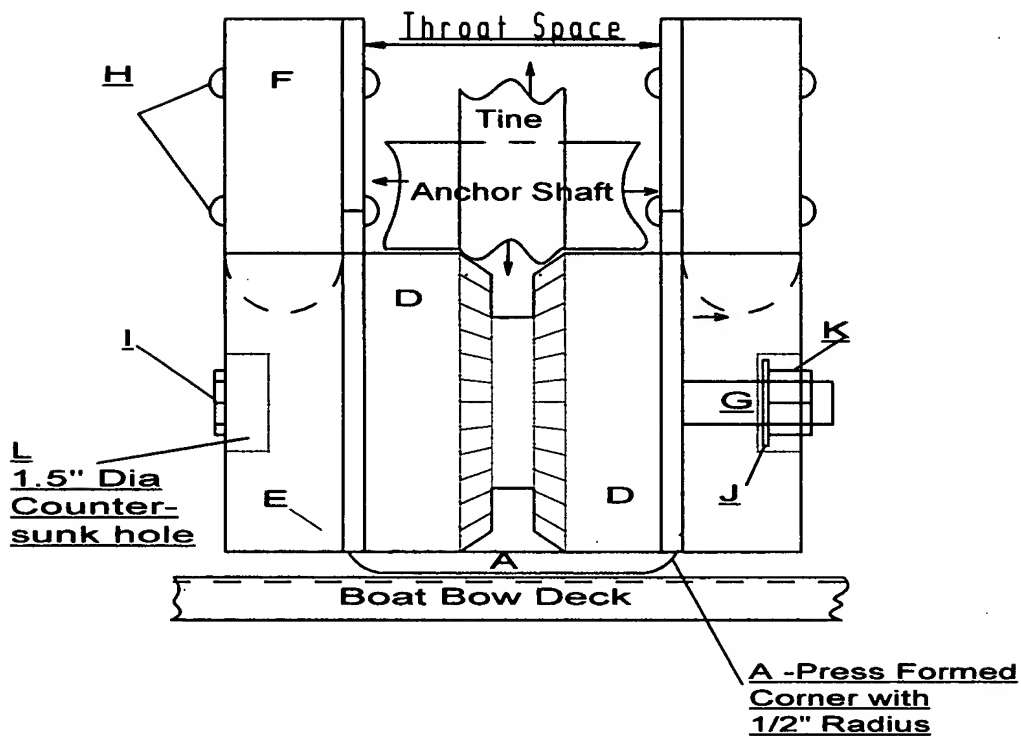
Figure 13 :
 Bottom Baseplate View

Application range				Perm. tolerance	Surface	Scale (2:1) N/A USPTO Spec	Weight .25"
Parts Identification						Material	
No Dimensions						Raw part no.	Aluminum
						Model no.	
				Date	Name	Designation BWC- Big Water Company Anchor Assist	
				Editor	June 2002 LDR		
				Check	06/11/03		
				Stand.			
						Richardson Brothers - Ken: 503-668-1274, Larry: 503-502-0595	
	Replacement	11/15/2003	DGR			Drawing number	Sheet
		06/11/03	LDR			10013-B	2 of 2
		04/16/03	LDR				Sh.
Stat.	Modification	Date	Nam	Origin		Repl. f.: 06/11/03	Repl. by: 11/15/03

Inventors: Ken C. Richardson, Larry D. Richardson
 Invention: Anchor Assist, (Replacement Sheet 11/15/2003)

14/14.

Top



Front View

Figure 14 :
 Front View Showing Boat
 Deck and Anchor relation

Application range				Perm. tolerance		Surface		Scale (2:1) N/A USPTO Spec		Weight .25"	
Parts Identification								Material Raw part no. Aluminum, UMHW, S/S Model no.			
					Date	Name		Designation			
				Editor	June 2002	LDR		BWC- Big Water Company			
				Check	06/11/03			Anchor Assist			
				Stand.				Richardson Brothers - Ken: 503-668-1274, Larry: 503-502-0595			
	Replacement	11/15/2003	LDR					Drawing number		Sheet	
		06/11/03	LDR					10014-A		1 of 1	
		04/16/03	LDR							Sh.	
Stat.	Modification	Date	Num	Origin				Repl. f.: 06/11/03		Repl. by: 11/15/03	